

Internship Posting Date: September 2, 2008  
Internship ID #: 08011



Intern Application Deadline: Until Project Completion

## New Jersey Department of Environmental Protection Internship Opportunity

Internship: ☒ Summer ☒ Fall Semester ☐ Winter Break ☒ Spring Semester

Internship Type: ☐ Co-op\* ☒ Credit-Bearing\* ☐ Non-credit

Internship Pay: ☒ Non- Paid ☐ Paid Pay Rate:

Intern Level: ☒ Graduate School ☒ Undergraduate ☐ High School

Suggested Background or Knowledge: Environmental Science; Biology, Geology; and Chemistry with a working knowledge of GIS and Excel Software

DEP Program Area and Work Unit Offering the Internship: Division of Watershed Management – Bureau of Environmental Analysis and Restoration (DWM - BEAR)

Internship Location: 401 East State Street, Trenton, NJ 08625

Internship Project Description(s) Select One:

### **Water Quality Improvement Evaluation Project**

*This is an ongoing project that will require at least one intern per semester to complete.*

Each year NJDEP provides funding through the 319 (h) grant program for improving water quality by reducing non point source pollution (NPS) through abatement projects. Many of these projects are aimed at implementing NPS loading in a water body as calculated in the total maximum daily loads (TMDLs) for these pollutants prepared by the Division of Watershed Management –Bureau of Environmental Analysis and Restoration (DWM-BEAR). Projects include the installation of best management practices (BMPs) such as: riparian buffer restoration, stormwater and management basin retrofits. Pre and post construction water quality monitoring is a component of many of these projects.

Intern Duties would include:

- Review and analyze pre and post construction water monitoring data
- Utilize Geographic Information System (GIS) software to create a layer/shapefile of location of 319 (h) projects
- Visit location of 319 (h) projects to determine current condition
- Limited field work maybe required

More information about the Division of Watershed Management can be found at <http://www.state.nj.us/dep/watershedmgt/>

Estimated Project Duration and Suggested Weekly Work Schedule: Flexible – Commensurate w/ 3 or 4 credits

Internship Learning Objectives / Marketable Skills: ability to compile, assess and draw conclusions from data analysis

\* Co-op and Credit-Bearing Internships require approval of the internship by the student's Academic Department. The DEP Internship Sponsor has agreed to work with the student's Academic Department to provide a credit-worthy learning environment that benefits DEP goals. The student is responsible for all costs associated with receiving the credits from their educational institution.

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Description of DEP Program Area/Work Unit Offering the Internship:

Division of Watershed Management: The goal of the Division of Watershed Management (DWM) is nonpoint source (NPS) pollution control and comprehensive water resource management on a watershed basis. Towards that end, the DWM follows two paths. The first path is a rule approach for preventing water quality degradation, which employs regulations to achieve its goal. The second path is an action approach to remedy existing water quality problems, employing Total Maximum Daily Load (TMDL) determinations, NPS control (319) projects, and stream restoration efforts.

**The Bureau of Environmental Analysis and Restoration (BEAR)** develops technical “tools” for the use of the DWM and its partners in watershed planning, protection and restoration. Among those tools are: the development of TMDLs; the writing of rules and regulations including Stormwater Management Rules, Water Quality Management Planning Rules, Sewage Infrastructure Improvement Rules and portions of the Highlands Rules; and the development of environmental standards, technical or administrative guidance documents for rule implementation, model ordinances, and best management practices (BMPs).

Internship Hiring Contact: Rebecca Jones (609) 984-4423, [Rebecca.jones@dep.state.nj.us](mailto:Rebecca.jones@dep.state.nj.us)

Internship Sponsor: Kimberly Cenno, Supervisor or Patricia Ingelido, Principal Environmental Specialist

**\*For credit-bearing internships only:** Sponsor Phone Number and Email: (609) 633-1441  
[kimberly.cenno@dep.state.nj.us](mailto:kimberly.cenno@dep.state.nj.us) or [patricia.ingelido@dep.state.nj.us](mailto:patricia.ingelido@dep.state.nj.us)

**Please Respond With a Completed Application Form, Resume, and Cover Letter to:**

New Jersey Department of Environmental Protection / Division of Human Resources  
P.O. Box 408 / Trenton, NJ 08625  
Attn: Internship Program  
Email Address: [Rebecca.Jones@dep.state.nj.us](mailto:Rebecca.Jones@dep.state.nj.us)

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